

CLAIMS

1. A battery comprising a battery body including:
a positive and a negative electrodes containing an active material;

a separator holding an electrolyte; and

an adhesive resin layer joining the positive and the negative electrodes to the separator,

wherein said adhesive resin layer is composed of at least one layer and contains a filler.

2. A battery according to claim 1, wherein that said electrolyte is an organic electrolyte containing lithium ions.

3. A battery according to claim 1, wherein that the average particle size of said filler is equal to or smaller than the particle size of the active material constituting each electrode.

4. A battery according to claim 3, wherein said average particle size of said filler is 1 μm or smaller.

5. A battery according to claim 1, wherein the sum of a volume ratio of the adhesive resin and that of the filler per unit volume of said adhesive resin layer is less than 1.

6. A battery according to claim 5, wherein the sum of a volume ratio of the adhesive resin and that of the filler per unit volume of said adhesive resin layer is 0.2 to 0.8.

7. A battery according to claim 1, wherein said filler comprises at least one of non-conductive materials and semiconductors.

8. A battery according to claim 1, wherein said adhesive resin layer comprises a layer containing an electrically conductive filler and a layer containing at least one of non-conductive materials and semiconductors.

9. A battery according to claim 1, wherein said adhesive resin layer is constituted so as to fill the vacancies formed in the interface between each electrode and the separator due to the unevenness of the electrode and the separator.

10. A battery according to claim 1, wherein said battery body is a laminate of a plurality of electrode bodies each composed of a single layer of the positive electrode, a single layer of the separator, and a single layer of the negative electrode.

11. A battery according to claim 10, wherein said laminate is formed by interposing the positive electrode and the

negative electrode alternately among a plurality of the separators.

12. A battery according to claim 10, wherein said laminate is formed by interposing the positive electrode and the negative electrode alternately between rolled separators.

13. A battery according to claim 10, wherein said laminate is formed by interposing the positive electrode and the negative electrode alternately between folded separators.